

ABSTRACT OF THE DISCLOSURE

Thin type TEM dual-mode rectangular-planar dielectric waveguide bandpass filter is disclosed.

5 The bandpass filter disclosed in the specification is constituted of a dielectric block 11 having a top surface, a bottom surface and first to fourth side surfaces, a metal plate 12 to be in a floating state substantially entirely formed on the top surface of the dielectric block 11, a metal plate 13 to be grounded formed on the bottom surface of the dielectric block 11,
10 and exciting electrodes 14 and 15 formed on the bottom surface of the dielectric block 11. The metal plate 13 has a removed portion 16 exposing a part of the bottom surface of the dielectric block 11. The removed portion 16 destroys the symmetry of the resonator structure of each mode so that a coupling between the dual-mode is provided. According to this
15 structure, because the exciting electrodes 14 and 15 are formed on the bottom surface of the dielectric block 11, thickness of the dielectric block 11 can be easily reduced.